FIG. 1

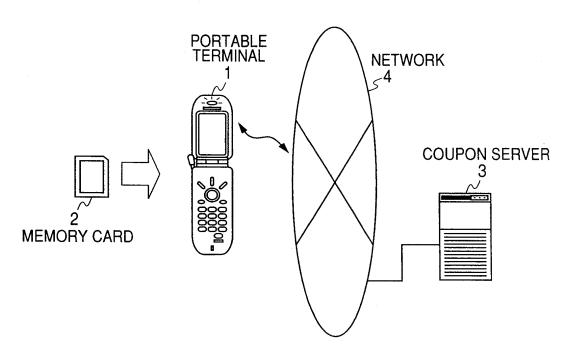


FIG. 2

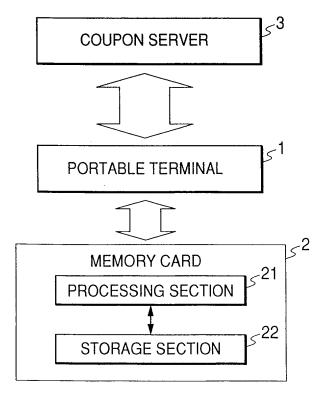


FIG. 3

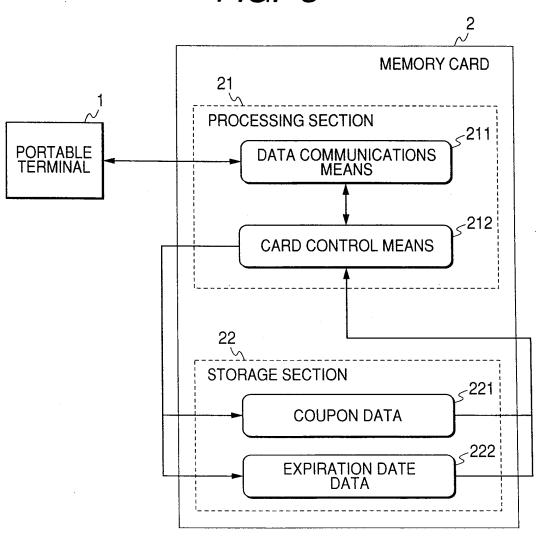
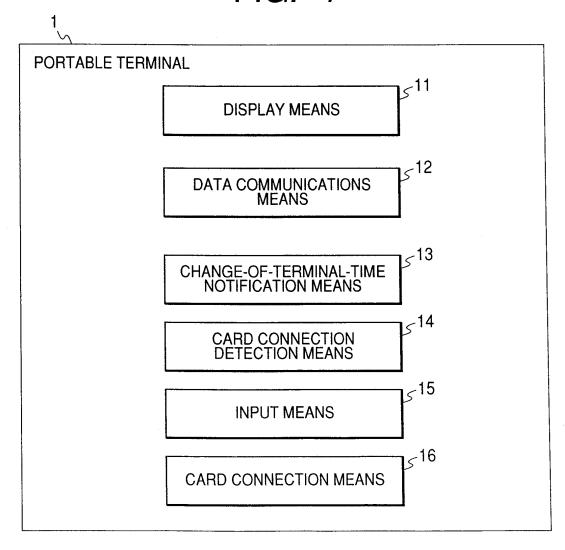
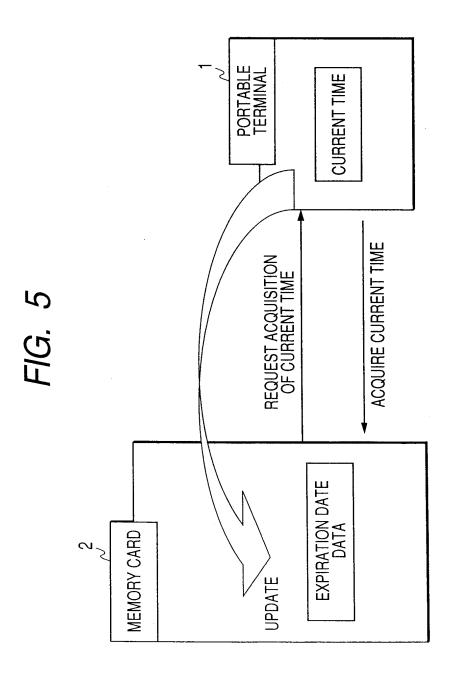


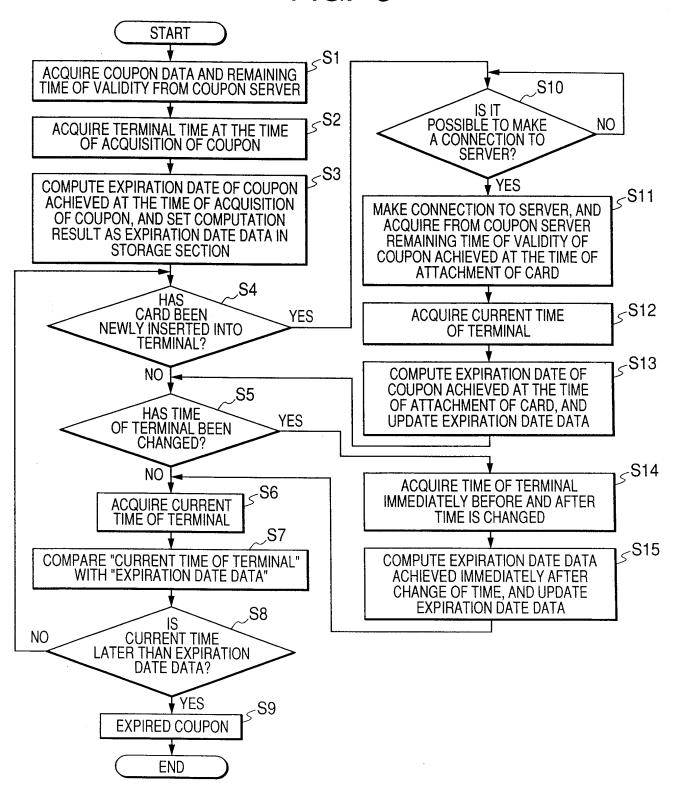
FIG. 4



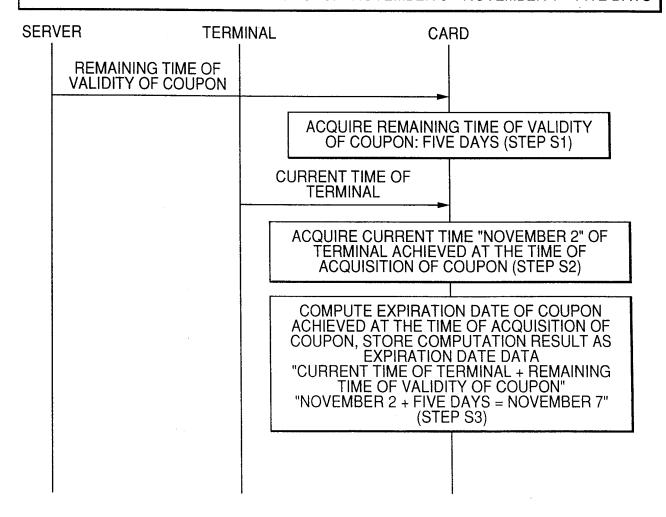


VERIFY VALIDITY OF COUPON BY COMPARING "CURRENT TIME" WITH "EXPIRATION DATE"

FIG. 6

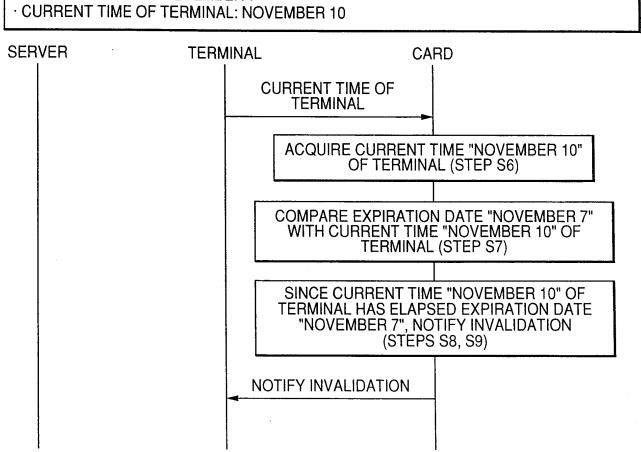


- · EXPIRATION DATE OF COUPON: NOVEMBER 6 IN SERVER TIME
- · CURRENT TIME OF SERVER: NOVEMBER 1
- CURRENT TIME OF TERMINAL: NOVEMBER 2
- · REMAINING TIME OF VALIDITY OF COUPON: NOVEMBER 6 NOVEMBER 1 = FIVE DAYS



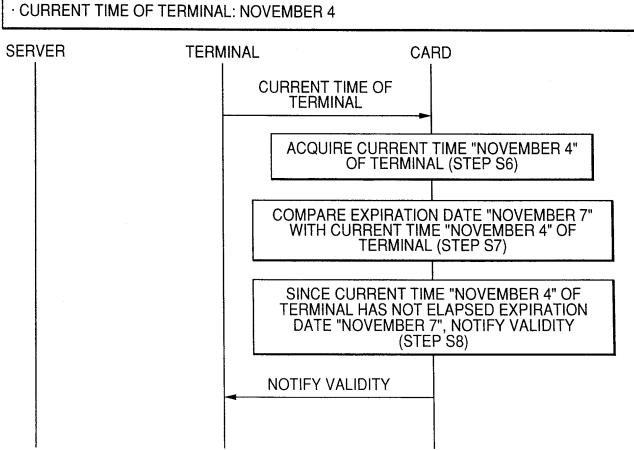
[WHEN COUPON IS DETERMINED TO BE INVALID]

· EXPIRATION DATE: NOVEMBER 7



[WHEN COUPON IS DETERMINED TO BE VALID]

· EXPIRATION DATE: NOVEMBER 7



[AT THE TIME OF CHANGE OF TIME]

- · EXPIRATION DATE: NOVEMBER 5
- · TIME ACQUIRED IMMEDIATELY BEFORE CHANGE OF TERMINAL TIME: NOVEMBER 4
- TIME ACQUIRED IMMEDIATELY AFTER CHANGE OF TERMINAL TIME: NOVEMBER 1

SERVER **TERMINAL** CARD NOTIFY CHANGE OF TIME DETECT CHANGE OF TERMINAL TIME (STEP S5) TIME INFORMATION ABOUT TERMINAL ACQUIRE TIME OF TERMINAL IMMEDIATELY BEFORE AND AFTER CHANGE OF TERMINAL TIME ("NOVEMBER 4" ACQUIRED IMMEDIATELY BEFORE CHANGE OF TIME, "NOVEMBER 1" ACQUIRED IMMEDIATELY AFTER CHANGE OF TIME) (STEP S14) COMPUTE REMAINING TIME OF VALIDITY OF COUPON IMMEDIATELY BEFORE CHANGE OF TERMINAL TIME "OLD EXPIRATION DATE - TIME ACQUIRED IMMEDIATELY **BEFORE CHANGE"** "NOVEMBER 5 - NOVEMBER 4 = ONE DAY" (STEP S15) COMPUTE REMAINING TIME OF VALIDITY OF COUPON IMMEDIATELY AFTER CHANGE OF TERMINAL TIME. UPDATE EXPIRATION DATE DATA "TIME ACQUIRED IMMEDIATELY AFTER CHANGE + REMAINING TIME OF VALIDITY OF COUPON ACQUIRED IMMEDIATELY BEFORE CHANGE OF TERMINAL TIME" "NOVEMBER 1 + ONE DAY = NOVEMBER 2" (STEP S16)

[AT THE TIME OF ATTACHMENT OF CARD]

- · CURRENT TIME OF SERVER: NOVEMBER 3
- · EXPIRATION DATE OF COUPON IN SERVER TIME: NOVEMBER 5
- · CURRENT TIME OF TERMINAL: NOVEMBER 4
- · REMAINING TIME OF VALIDITY OF COUPON ACHIEVED AT THE TIME OF ATTACHMENT OF CARD: NOVEMBER 5 NOVEMBER 3 = TWO DAYS

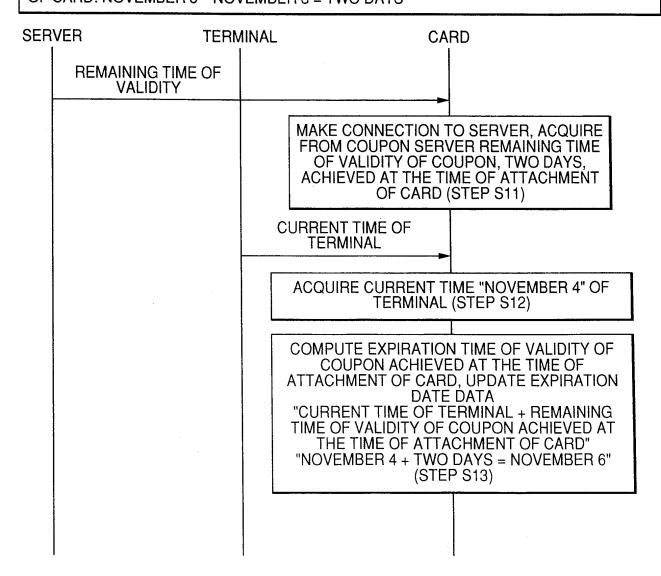


FIG. 12

[ACQUISITION OF INFORMATION ABOUT EXPIRATION DATE OF COUPON]

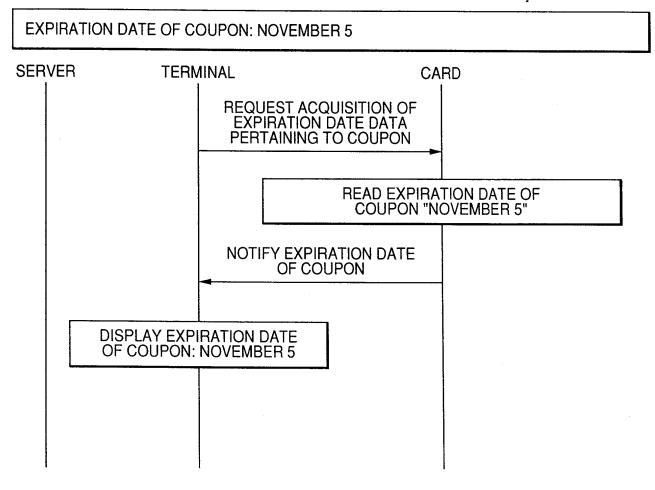


FIG. 13

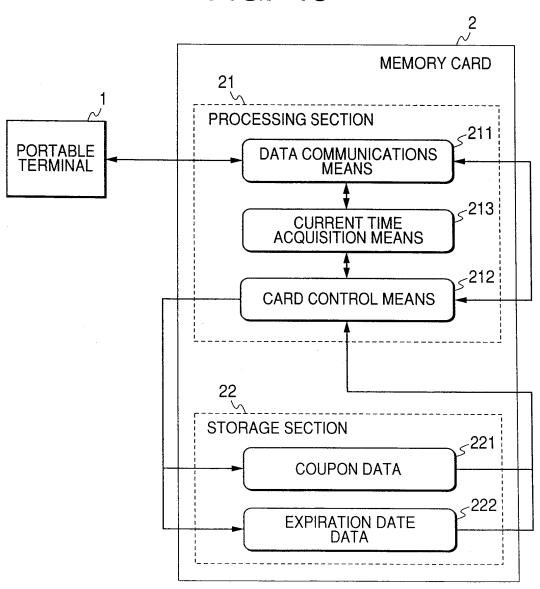
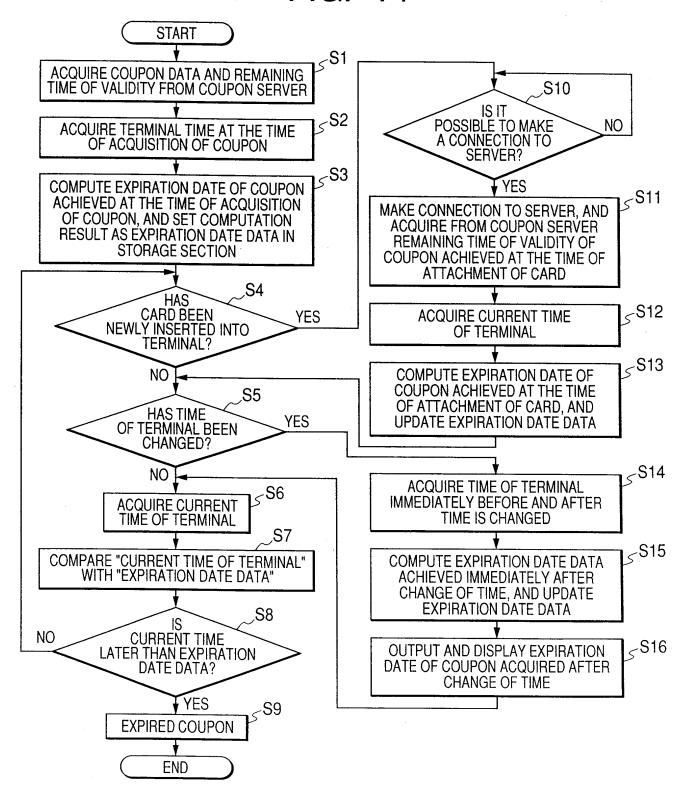


FIG. 14



- · EXPIRATION DATE OF COUPON: NOVEMBER 6 IN SERVER TIME
- · CURRENT TIME OF SERVER: NOVEMBER 1 · CURRENT TIME OF TERMINAL: NOVEMBER 2
- · REMAINING TIME OF VALIDITY OF COUPON: NOVEMBER 6 NOVEMBER 1 = FIVE DAYS

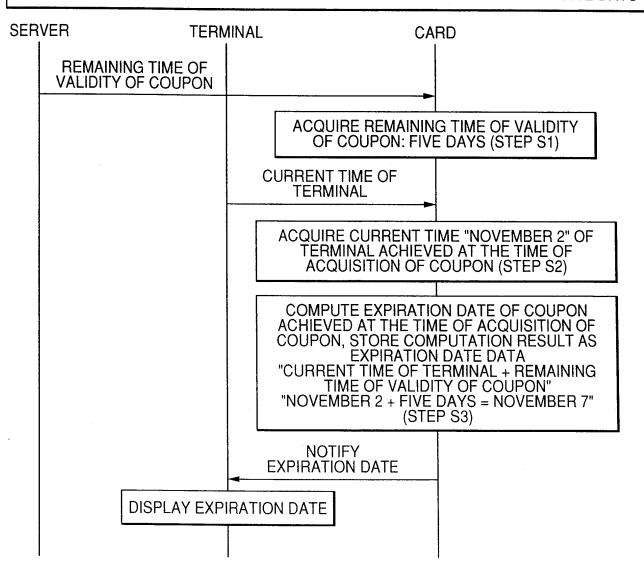
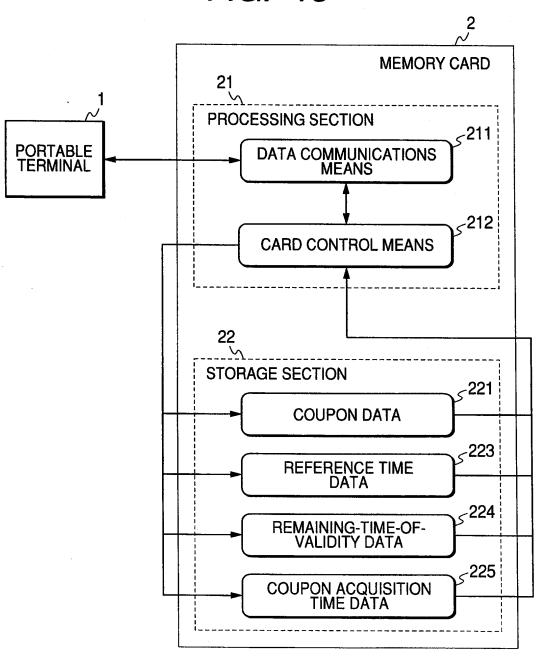
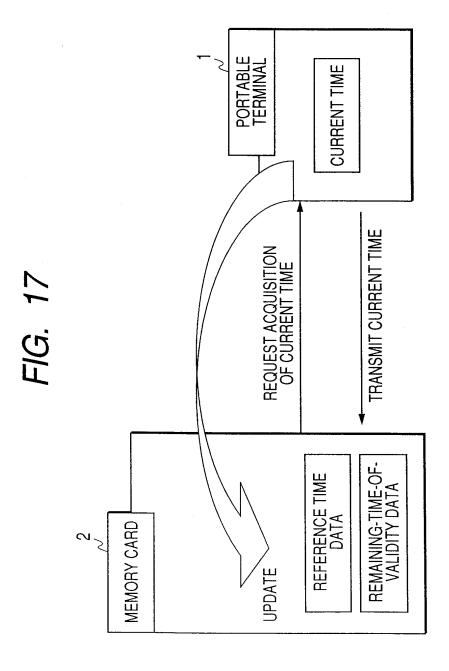
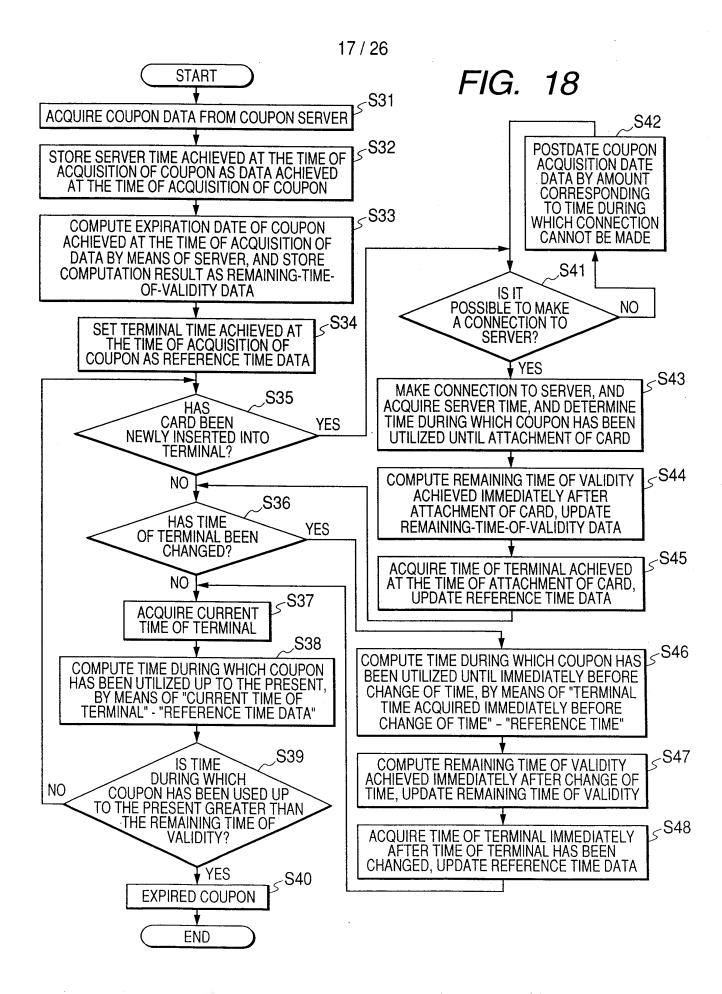


FIG. 16

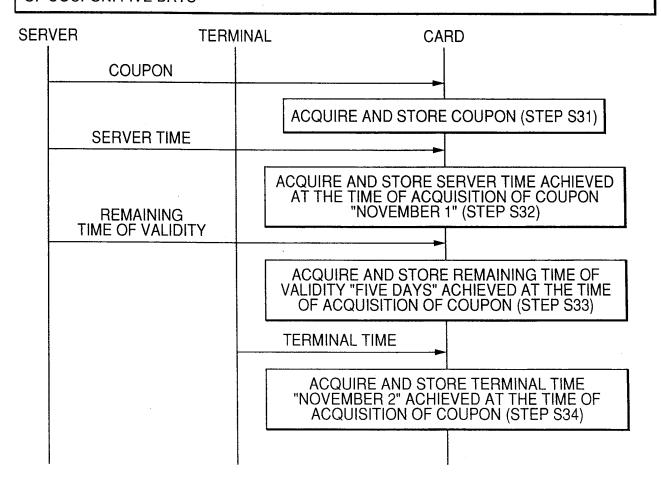




VERIFY VALIDITY OF DATA BY COMPARING "CURRENT TIME - REFERENCE TIME" WITH "FXPIRATION DATE"

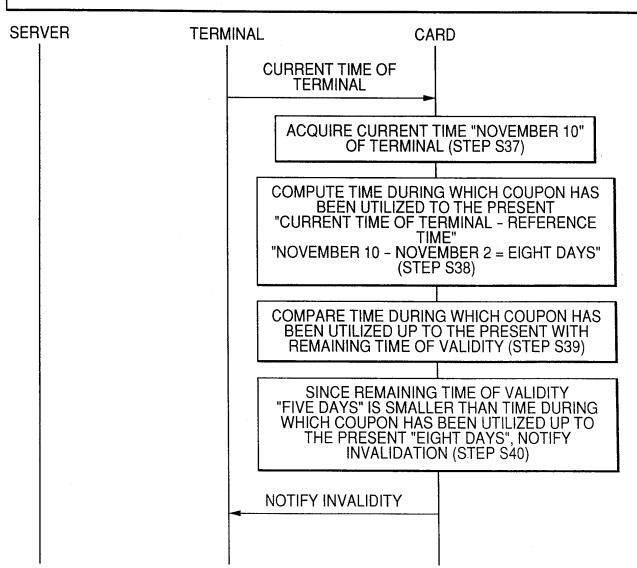


- · SERVER TIME ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: NOVEMBER 1
- TIME OF TERMINAL ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: NOVEMBER 2
- · REMAINING TIME OF VALIDITY OF COUPON ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: FIVE DAYS



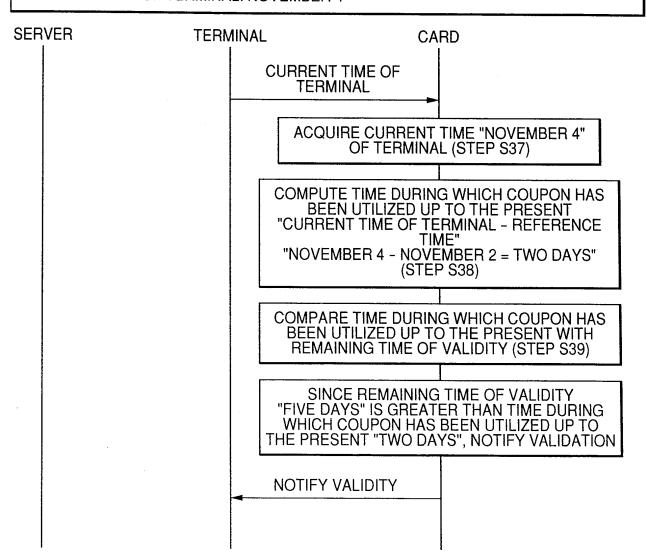
[AT THE TIME OF COUPON BEING DETERMINED TO BE INVALID]

- · REMAINING TIME OF VALIDITY: FIVE DAYS
- · REFERENCE TIME: NOVEMBER 2
- CURRENT TIME OF TERMINAL: NOVEMBER 10



[WHEN COUPON IS DETERMINED TO BE VALID]

- · REMAINING TIME OF VALIDITY: FIVE DAYS
- · REFERENCE TIME: NOVEMBER 2
- · CURRENT TIME OF TERMINAL: NOVEMBER 4



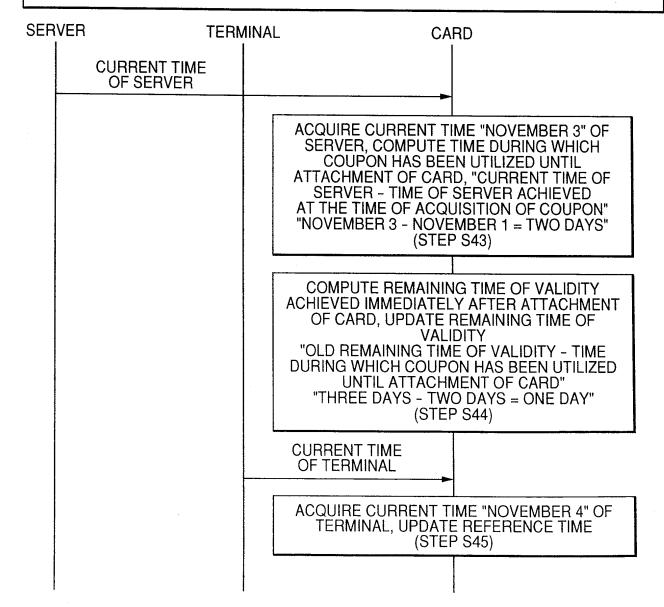
[AT THE TIME OF CHANGE OF TIME]

- · REMAINING TIME OF VALIDITY: FIVE DAYS
- · REFERENCE TIME: NOVEMBER 2
- · TIME OF TERMINAL ACHIEVED IMMEDIATELY BEFORE CHANGE OF TIME: NOVEMBER 4
- · TIME OF TERMINAL ACHIEVED IMMEDIATELY AFTER CHANGE OF TIME: NOVEMBER 1

SERVER **TERMINAL** CARD NOTIFY CHANGE OF TIME DETECT CHANGE OF TERMINAL TIME (STEP S36) INFORMATION ABOUT TIME OF TERMINAL ACQUIRE FROM TERMINAL TIME ACHIEVED IMMEDIATELY BEFORE CHANGE OF TIME, COMPUTE TIME DURING WHICH COUPON HAS BEEN UTILIZED IMMEDIATELY BEFORE CHANGE OF TIME "TERMINAL TIME ACHIEVED IMMEDIATELY BEFORE CHANGE OF TIME - REFERENCE TIME" "NOVEMBER 4 - NOVEMBER 2 = TWO DAYS" (STEP S46) COMPUTE REMAINING TIME OF VALIDITY ACHIEVED IMMEDIATELY AFTER CHANGE OF TIME, UPDATE REMAINING TIME OF VALIDITY "OLD REMAINING TIME OF VALIDITY - TIME DURING WHICH COUPON HAS BEEN UTILIZED IMMEDIATELY BEFORE CHANGE OF TIME" "FIVE DAYS - TWO DAYS = THREE DAYS" (STEP S47) ACQUIRE CURRENT TIME "NOVEMBER 1" OF TERMINAL ACHIEVED IMMEDIATELY AFTER CHANGE OF TIME. **UPDATE REFERENCE TIME (STEP S48)**

[AT THE TIME OF ATTACHMENT OF CARD]

- · CURRENT TIME OF SERVER: NOVEMBER 3
- TIME OF COUPON SERVER 3 ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: NOVEMBER 1
- · CURRENT TIME OF TERMINAL: NOVEMBER 4
- · REMAINING TIME OF VALIDITY: THREE DAYS
- · REFERENCE TIME: NOVEMBER 2



[ACQUISITION OF INFORMATION ABOUT EXPIRATION DATE OF COUPON]

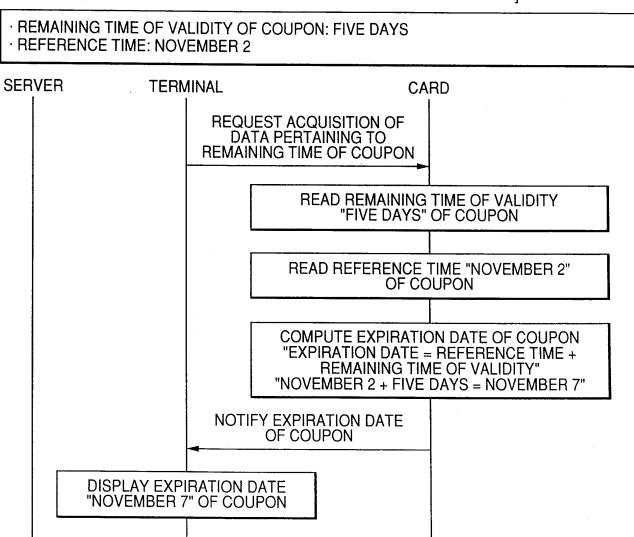
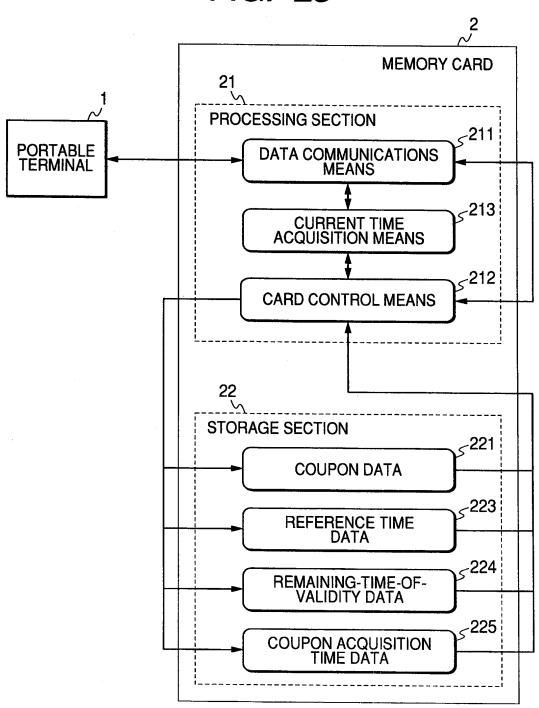
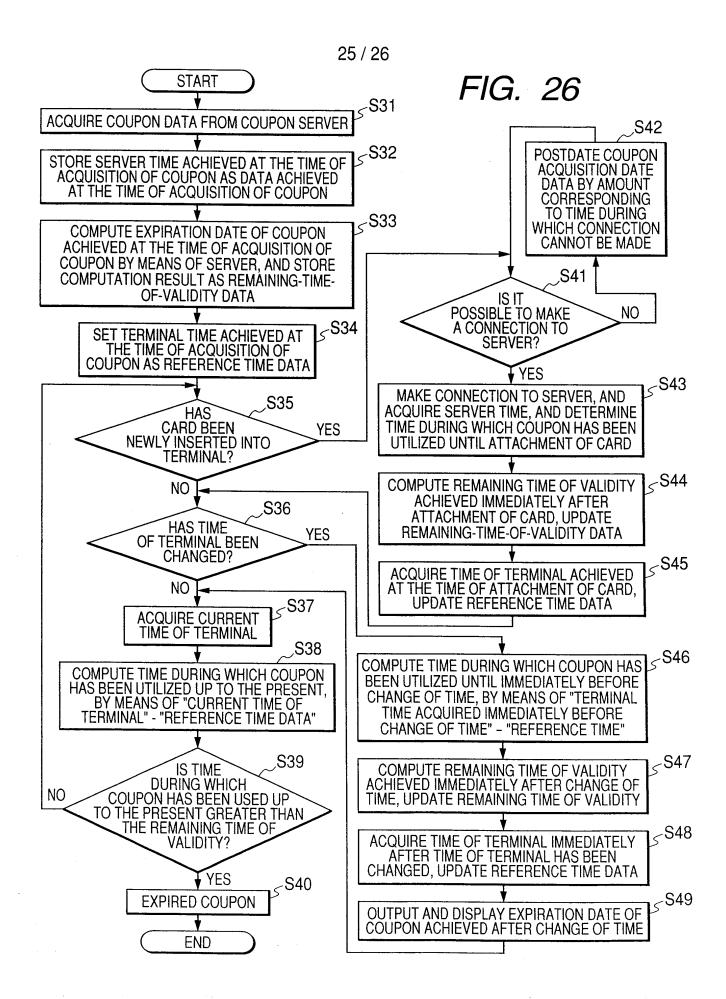


FIG. 25





- · SERVER TIME ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: NOVEMBER 1
- · TIME OF TERMINAL ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: NOVEMBER 2
- · REMAINING TIME OF VALIDITY OF COUPON ACHIEVED AT THE TIME OF ACQUISITION OF COUPON: FIVE DAYS

